Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

				me, in the supply of many
				1 - 2
	3+0 4-			
			-	
				-
			•	
			1(1)	
		•		
			•	
	÷			
			-	
	4			

erre

THE PLANT DISEASE REPORTER

Issued By

PLANT DISEASE EPIDEMICS and IDENTIFICATION SECTION

AGRICULTURAL RESEARCH SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

SUPPLEMENT 236

INDEX TO SUPPLEMENTS 231-235, 1955

AUG 20 1956

U. S. GEPARIMENT OF AGRICULTURE

Issued July 15, 1956



The Plant Disease Reporter is issued as a service to plant pathologists throughout the United States. It contains reports, summaries, observations, and comments submitted voluntarily by qualified observers. These reports often are in the form of suggestions, queries, and opinions, frequently purely tentative, offered for consideration or discussion rather than as matters of established fact. In accepting and publishing this material the Plant Disease Epidemics and Identification Section serves merely as an informational clearing house. It does not assume responsibility for the subject matter.

PLANT DISEASE REPORTER SUPPLEMENT

Issued by

PLANT DISEASE EPIDEMICS AND IDENTIFICATION SECTION

INDEX TO PLANT DISEASE REPORTER SUPPLEMENTS 231-235, 1955

Compiled by Nellie W. Nance

Horticultural Crops Research Branch Supplement 236 Plant Industry Station, Beltsville, Maryland Index to Supplements, 1955

LIST OF SUPPLEMENTS

- Supplement 231. Tomato late blight: Its world distribution and present status. pp. 1-91. April 30, 1955. By Paul R. Miller and Muriel J. O'Brien. This includes a table of contents and general index.
- Supplement 232. Check list of the diseases of grasses and cereals in Alaska. pp. 93-102. May 30, 1955. By Roderick Sprague. Host Index.
- Supplement 233. Fifth revision of the international register of physiologic races of Puccinia rubigo-vera (DC.) Wint. f. sp. tritici (Eriks.) Carleton = (Puccinia triticina Erikss.). pp. 103-120. October 15, 1955. By C. O. Johnston and M. N. Levine. This includes an analytical key for the identification of physiologic races of P. rubigo-vera determined on the basis of their parasitic behavior on differential varieties of Triticum vulgare.
- Supplement 234. Systemic chemicals. pp. 121-134. November 15, 1955. Papers presented at the Wooster meeting, North Central Division, American Phytopathological Society, Wooster, Ohio. See its table of contents and the author index below.
- Supplement 235. Some new and important plant disease occurrences and developments in the United States in 1954. pp. 135-175. December 15, 1955. Compiled by Nellie W. Nance.

AUTHOR INDEX

ALTHAUS, RALPH W., (132)

BRAGONIER, W. H., 133 BRANDES, GORDON A., 125 BRANDT, WILLIAM H., 132 BROCE, WILLIAM, 130

DAVIDSON, J. H., 127

GUENGERICH, H. W., (131)

HARRY, JOHN B., 133 HOWARD, F. L., (126)

JOHNSTON, C. O., 104

KRAUSS, W. E., 123

LEVINE, M. N., (104) LOCKWOOD, JOHN L., 124 LOEGERING, W. Q., 126

MILLER, PAUL R., 3 MILLIKAN, D. F., (130), 131

NANCE, NELLIE W., 136

O'BRIEN, MURIEL J., (3)

PHILIPS, R. F., 128

SHURTLEFF, M. C., 126 SMITH, J. E., Jr., (130) SPRAGUE, RODERICK, 94 SWARTWOUT, H. G., 131

TROLL, J., (126)

YOUNG, H. C., 123

SUBJECT INDEX

Acer spp.: Phyllosticta leaf spot, 164 --- negundo: red stain, Fusarium negundinis associated, 164 Aceria tulipae, 154 Acti-dione, 152 Africa, 20 Agrimycin, 158, 172 Agrobacterium tumefaciens, 147 Agropyron spp.: crown rust, 155; diseases in Alaska, 95 --- cristatum: dwarf bunt, 1st rept. on this host in North America (Idaho, Oregon), 144 --- desertorum: dwarf bunt. 1st rept. on this host (Idaho, Oregon), 144 --- intermedium: dwarf bunt, 153

--- sibiricum: dwarf bunt, 1st rept.

on this host (Idaho), 144

Agrostis spp.: diseases in Alaska, 95; nematodes associated with yellow tuft of bentgrass, 155

Alabama, 145 Alaska, 94, 155

Aleurites fordii: thread blight, 158 Alfalfa: Leptosphaeria pratensis, 1st rept. from Iowa, 140; Phytophthora

root rot, 156; Pratylenchus sp., 156

Allium spp.: rust, 169

Almond: powdery mildew, 159; scab,

Alnus glutinosa: Valsaria megalospora, 1st rept. on this host in this country (Oreg.), 149

Alopecurus spp.: diseases in Alaska, 96 --- pratensis: leaf spot, Mastigosporium album, 1st rept. on this host in this country (N. Y.), 145

Alternaria tomato, 171

Ammonium nitrate, 167

Anthracnose, of cucumber, 170; of Platanus spp., 165; of Trifolium pratense, 156.

---, spot, of Ilex cornuta, 146

Antibiotics, as systemic fungicides, 124 "Anticarie", 153

Aphis gossypii, 163

Apple: cedar rust, acti-dione for control of, 131; fire blight, 158; powdery mildew, 158

Apricot: ring pox (virus), 159

Arasan, 155

Arctagrostis spp.: diseases in Alaska, 96 Arctophila fulva: diseases in Alaska, 96

Arizona, 142, 147, 154, 169, 173

Arkansas, 143, 158, 170

Arrhenatherum elatius: dwarf bunt, 153

Ascochyta hordei, 140

Asia, 31

Asparagus: die-back, 169; Fusarium wilt, 169; grey mold, 169

Aspergillus flavus, 166

--- niger, 166

Australasia and Pacific Ocean areas, 39

Australia, 104

Avena sativa: diseases in Alaska, 96

B-622, 161

BB/LML/20, 151

Bacterial blight, of bean, 173; cotton, 167

--- canker, of blueberry, 160; tomato, 171

--- soft rot, of spinach, 175

--- spot, of pepper, 170, 172; tomato, 172

--- , canker, of peach, 160

--- stem and leaf spot, of Pelargonium hortorum, 163

--- streak, of Narcissus sp., 147

--- wilt, of chrysanthemum, 162

Bacterium stewartii, 154

Baldulus maidis, 154

Barley: Ascochyta hordei, 1st rept. from West Virginia, 140; loose smut, 152; root rot, 152; stripe mosaic virus, 152

Bean: bacterial blight, 173; blight, 128, 173; curly top (virus), 169; Fusarium root rots, 173; halo blight, 173; mosaic virus, 173; root rot, 173; rust, 173; yellow bean mosaic (virus), 173

--- lima: downy mildew, 173; wrinkled seed coat, 173

Beckmannia syzigachne: Erysiphe graminis in Alaska, 96

Beet, sugar, see sugar beet

Begonia: Thielaviopsis root rot, 161 Bermuda: West Indies: Caribbean

region, 59

Black heart, of celery, 169

--- leg, of potato, 174

--- mold, of carrot, 150; Cryptomeria japonica, 164; Ilex opaca, 164; Juniperus virginiana, 164; of rose, 164; Thuja occidentalis, 154

--- patch, of Trifolium pratense, 157

--- root, of cauliflower, 169

--- rot, of cabbage, 169

--- shank, of tobacco, 167

Blast, of Eremochloa ophiuroides, 145 Blight, of bean, 128, 173; Castanea dentata,

164; sweetgum, 164

Blossom blast and twig dieback, 160

--- and twig blight, of blueberry, 160

Blossom-end rot, of tomato, 172

Blue mold, of tobacco, 132, 167

Blueberry: bacterial canker, 160; blossom and twig blight, 160

Boll rot, of cotton, 166

Bordeaux mixture, 161

Botryosphaeria ribis var. chromogena, 141

Botrytis spp., 169

--- cinerea, 160, 161, 169, 171

--- diseases, of Gladiolus, 162

--- ricini, 161

Bremia lactucae, 171

Bromus spp.: brown leaf spot, 155; diseases in Alaska, 96

Broomrape, see Orobanche

Brown leaf spot, of Bromus spp., 155

--- rot, of peach, 159

(Brown) spot, of lettuce, 171

Cabbage: black rot, 169; downy mildew,

169; yellows, 169 Caladium bicolor: soft rot, 161

Calamagrostis spp.: diseases in Alaska, 97

California, 142, 148, 150, 154, 156, 157, 159, 161, 163, 166, 167, 168, 169, 171,

172, 173

Calluna vulgaris vars. alba and aurea: Phytophthora root rot, 164

Camellia spp.: flower blight, 162; unsuitable soil, unsatisfactory drainage and irrigation, 162; variegation (virus), 162

Canada, 104, 155, 172

Candicidin, 159, 173

Candida intermedia, 168

Cantaloupe: downy mildew, 170; Fusarium wilt (F. oxysporum f. melonis), 1st rept. from North Carolina, 143

Captan, 161

Carnation: wilt, chemotherapeutic control of, 130

Carneocephala fulgida, 161

Carrot: black mold, 1st rept. on this host (Calif.), 150

Cassia tora: strains of tobacco etch virus, 155

Castanea dentata: blight, 164

Castorbean, see Ricinus

Cauliflower: black root, 169

Cedar rust, of apple, 131

Celery: black heart (calcium deficiency), 169; Paratylenchus hamatus, 169

Central America, 54

Ceratostomella ulmi, 166

Cercis canadensis: dieback (Botryosphaeria ribis var. chromogena), 1st rept. from West Virginia, 141

Cercospora kikuchii, 156

--- lathyrina, 140

--- loti, 144

--- penniseti, 155

Cercosporella herpotrichoides, 140, 152

Ceresan M, 151, 162

Chaetomium spp., on potato, 174

Chalaropsis thielavioides, 164

Chamaecyparis lawsoniana vars. allumi and elwoodi: Phytophthora root rot, 164

Charcoal rot, of Ricinus communis, 148, 168

Check list of the diseases of grasses and

cereals in Alaska. Suppl. 232, pp. 93-102

Chemical cereal rust control project, of U.S.D.A., 126

Chemotherapeutic control, of carnation wilt, 130

Cherry, sweet: rasp leaf (virus), 1st rept. from New Mexico, 141

Chloranil (Spergon), 169

Chlorobromopropene, 172 Chlorophenyl methyl-rhodanine, 171 Chlorosis and dieback: of Gerbera jamesonii, 146; Senecio cruentus, 145 Chrysanthemum: bacterial wilt, 162; blight injury (tomato aspermy virus), 162; ringspot (virus), 1st rept. on this host (Ala.), 145 Cinerarea (see also Senecio): Thielaviopsis root rot, 161 Cinna latifolia: diseases in Alaska, 97 Circulifer tenellus, 166 Citrus: damping-off, 157; Hendersonula toruloidea, 157; Penicillium spp., control with ammonia gas in Calif., 157; Tylenchulus semipenetrans, 159 --- reticulata: tristeza virus, 157 Cladosporium sp., 94; on almond, 159 --- aecidiicola, 163 --- carpophilum, 159 --- effusum, 161 Cocklebur, see Xanthium Colladonus clitellarius, 159, 160 --- geminatus, 156 --- montanus, 156 Colletotrichum fuscum, on Digitalis lanata, --- lagenarium, 170 --- trifolii, 156 Colorado, 150, 152 Common names used in various countries for late blight, of tomato, 77 Connecticut, 167, 170, 171 Copper mallow, see Sphaeralcea Corn: crown rot, 154; downy mildew, 154; Gibberella fujikuroi, 154; Gibberella zea, 154; northern leaf blight, 154; Stewart's disease, 154; stunt (virus), 154 Cornus florida: anthracnose (Elsinoë corni), 1st rept. from West Virginia, Corticium solani, 169 Corynebacterium michiganense, 171 Cotton: bacterial blight, 167; boll rot, 166; fluorescent fiber, Aspergillus flavus, A. niger and Rhizopus sp. assoc., 166; Fusarium wilt, 166; leaf crumple (virus), 167; Rhizoctonia solani, 166; root rot, 166; Verticillium wilt, 166 Covered kernel smut, of sorghum, 152 Crag 5400, 161 Cronartium coleosporioides, 164 Crotalaria: virus diseases, 157 --- spectabilis: yellow bean mosaic (inoc. expts. 1st rept. on this host in U.S., (Idaho), 144 Crown and basal stem rot, of wheat, 152 Crown gall, of Lippia canescens, 147 --- rot, of corn, 154; Iris, 163 --- rust, of Agropyron spp., 155; oats, 151

Cryptomeria japonica: black mold, 164
Cucumber: anthracnose, 170; downy
mildew, 170
Cucurbits: virus diseases, 170
Curvularia spp., 152
--- lunata, 142
--- trifolii, 144
Cyclamen: Thielaviopsis root rot, 161
Cyclamen persicum: root rot (Thielaviopsis basicola), 1st rept. from Maryland, 141

Dactylis glomerata: Claviceps purpurea in Alaska, 98; dwarf bunt, 1st rept. on this host in U.S., (Oregon), 144 Dahlia sp.: spotted wilt (virus), 162 Damping-off, of Citrus, 157; tomato, 172 Delaware, 170, 173 Dematophora necatrix, 159 Deschampsia: diseases in Alaska, 98; Tilletia cerebrina, 155 Dianthus caryophyllus: Pseudomonas caryophylli, 162 Diaporthe phaseolorum var. sojae, 156 Dichlone, 171 Die-back, of asparagus, 169; of Liriodendron tulipifera, 149 Digitalis lanata: Colletotrichum fuscum, 166; tobacco mosaic virus, 166 Diplodia natalensis, 141 Diplodina persicae, 159 Diseases, of cereal crops, 151; forage and cover crops, 154; fruit crops, 157; nut crops, 161; ornamental and miscellaneous plants, 161; shrubs and trees, 164; vegetable crops, 168 Distribution by countries of tomato late blight in 1954, 91 Dithane, 167 Dowicide B, 162 Downy mildew, of cabbage, 169; cantaloupe, 170; corn, 154; cucumber, 170; grape, 131; lettuce, 171; lima bean, 173; radish, 174 Draeculacephala minerva, 161 Dryland root rot, of wheat, 152 Dupontia sp.: diseases in Alaska, 98 Dutch elm disease, of Ulmus spp., 166 Dwarf bunt, of Agropyron spp., 144; Dactylis

Eggplant: Heterodera rostochiensis, 174;
Verticillium wilt, 174
Elsinoë corni, 142
Elymus spp.: diseases in Alaska, 98
Endoconidiophora fagacearum, 133, 165
Endothia parasitica, 164
England, 158
Entomosporium maculatum, 148.
Eremochloa ophiuroides: blast, 1st rept.

glomerata, 145; of Gramineae, 153;

of grasses, 155; wheat, 153

on this host in U. S., (Florida), 145 Erica carnea: Phytophthora root rot, 164 Erwinia amylovora, 124, 128, 158, 160 --- atroseptica, 174 --- chrysanthemi, 162 Erysiphe cichoraceaum, 147, 148, 171 --- graminis tritici, 152 Ethiopia, 104 Ethylene dibromide, fungicidal value when used as a soil fumigant, 127 Euphorbia pulcherrima: Thielaviopsis root rot, 161 Europe, 4

Fasciation of root, of Ilex glabra, 163 Festuca spp.: diseases in Alaska, 98 Ficus carica: thread blight, 157 Fieberiella florii, 156 Fifth revision of the international register of physiologic races of Puccinia rubigovera (DC.) Wint. f. sp. tritici (Eriks.) Carleton = (P. triticina Erikss.) Suppl. 233, pp. 103-120 Filipin, 172 Fire blight, of apple, 158; pear, 160

Florida, 144, 145, 148, 150, 154, 156, 157, 162, 163, 167, 168, 169, 171, 172, 173, 174, 175 Flower blight, of Camellia spp., 162

Forecasting decay in storage grapes, 161 Fraxinus spp.: rust, 164 Fruit rot, of watermelon, 170

Fungicides: antibiotics as systemic, 124; for Merion bluegrass rust control, 126; and oak wilt, 133; systemic, methods in evaluating, 133

Fusarium spp., 127, 152

--- brown rot, of Gladiolus spp., 162

--- lateritium, 149 --- moniliforme, 168 --- negundinis, 164 --- nivale, 155

--- oxysporum, 157

--- f. asparagi, 169

--- f. conglutinans, 169

--- f. dianthi, 130

--- f. gladioli, 162

--- f. lycopersici, 171

--- f. oxysporum f. vasinfectum, 166

--- root rots, of bean and pea, 173
--- "roseum", 157

--- solani, 173, 157

--- ---, of Parthenium argentatum, 168

--- wilt, of asparagus, 169

Garlic: Penicillium clove rot, 169 Georgia, 140, 144, 145, 153, 155, 156, 162, 164, 167, 172

Gerbera jamesonii: chlorosis and dieback. 1st rept. on this host (Md.), 146; Thielaviopsis root rot, 161

Gibberella fujikuroi, 154 --- zeae, 154 Gladiolus spp.: Botrytis diseases, 162; Curvularia lunata, 1st rept. from California, 142; Fusarium brown rot, 162; scab, 162; Stromatinia gladioli, 162; virus diseases, 163; western aster yellows (virus), 1st rept. from Kansas,

Gliocladium roseum, on Trifolium pratense, 157

Gloeosporium sp., on Paeonia officinalis, 142

Glyceria spp.: diseases in Alaska, 99 Gnomonia fructicola, 141

--- veneta, 165

142

Germany, 104

Ghost spot, of lettuce, 171

Goathead, see Tribulus

Grape: downy mildew, acti-dione for control of, 131; forecasting decay in storage, 161; Meloidogyne spp., 161; powdery mildew, 161; Pratylenchus spp., 161; virus diseases, 161

Grasses: dwarf bunt, 155; nematodes, 154: snow mold of turf, 154 Gray leaf spot, of tomato, 171, 172 Gray mold, of asparagus, 169; lettuce, 171 Guayule, see Parthenium Gymnosporangium, 131

Halo blight, of bean, 173 Helenium hoopesii: rust, new host, 163 Helminthosporium spp., 153

--- on oats, 151

--- dictyoides var. phlei, on Phlein pratense, 145

--- gossypii, 166

--- sacchari, 155

--- sativum, 152

--- stenospilum, 155

--- turcicum, 154

Hendersonia crastophila, 94

--- toruloidea, 157

Heterodera glycines, 144

--- marioni, 171, see also Meloidogyne incognita

--- rostochiensis, on eggplant, 174; on potato, 174

Hierochloë spp.: diseases in Alaska, 99 Hordeum spp.: diseases in Alaska, 99 Hordnia circellata, 161

Host index, of grasses and cereals in Alaska, 94

Hydrangea: tomato ring spot virus, 163 Hydrangea macrophylla: aster yellows (virus), 1st rept. of this disease in Hydrangea (Oregon), 146

Hylastinus obscurans, 156

Idaho, 144, 173 Ilex aquifolium: Phytophthora leaf and twig blight (new disease), Oregon and Washington, 146 --- cornuta: spot anthracnose (new disease), Louisiana, 146 --- glabra: fasciation of roots, 163 --- opaca: black mold, 164 Illinois, 152, 156, 160, 165, 166 Internal brown spot, of potato, 175 Iowa, 140, 152, 155, 156, 165 Iris: crown rot, 163; Leptosphaeria heterospora, 163 Italy, 104

Jasminum spp.: Phoma sp., probably a new sp. (Tex.), 146 Juniperus virginiana: black mold, 164

Kabatiella caulivora, 156 Kansas, 142, 151, 152, 153 Kentucky, 156, 167, 168

Laburnum alpinum: Laburnum vein-mosaic (proposed name), inoc. expts. (Md.), 149

Late blight, of cherry tomato, 172; potato, 174; potato and tomato, 172; tomato, common names used in various countries, 77; tomato: its world distribution and present status, pp. 1-91

Leaf roll, of potato, 175

--- rust, of wheat, 104, 152

--- spot, of Alopecurus pratensis, 145; Pennisetum glaucum, 155; tomato, 150 --- and stem blight, of summer squash, 170 Legumes: alfalfa mosaic (virus), 155; chemical seed treatments on nodulation of,

Leptodiscus terrestris, 156 Leptosphaeria heterospora, 163 --- pratensis, 140

Lettuce: big vein (virus), 171; brown spot, 171; downy mildew, 171; ghost spot, 171; gray mold, 171; powdery mildew, 171; tipburn and rib discoloration, 171

Lilium longiflorum: rosette (virus), 163 Lime paste, for sunburning of watermelon, 170

Lippia canescens: crown gall, 1st rept. on this host (Ariz.), 147; Meliola sp., 1st rept. from Arizona, 142; southern blight (Sclerotium rolfsii), 1st rept. from Arizona, 142

Liquidambar styraciflua: blight, 164 Liriodendron tulipifera: dieback, new disease (Miss.), 149

Little leaf, of Pinus echinata, 164 Louisiana, 143, 146, 154, 157, 166, 168, 169, 171

Loose smut, of barley, 152: wheat, 153

Lotus uliginosus: leaf spot, Cercospora loti, 1st rept. on this host in this country (Md., Ga.), 144

Lupinus spp.: powdery mildew, 156 --- densiflorus: yellow bean mosaic (inoc. expts. 1st repot on this host in U.S., Idaho), 144

Lycopersicon sp. (wild), for tomato disease control, 168

Maine, 141, 157, 160, 172, 174, 175 Marmor medicaginis, 155 Maryland, 141, 144, 145, 146, 147, 148, 149, 151, 152, 160, 163, 167, 168, 173, 174

Massachusetts, 164, 167 Mastigosporium album, 145 Medicago lupulina: yellow bean mosaic (inoc. expts. 1st rept. on this host in U. S., Idaho), 144

Melilotus spp.: yellow bean mosaic (virus) of bean and sweetclover, 173 Meliola sp., on Lippia canescens, 142

Meloidogyne spp., 161, 167

--- incognita, of tomato, 171

MEMA, 151

Methyl bromide, fungicidal value when used as soil fumigant, 127

Mexico, 153

Michigan, 147, 148, 172 Microsphaera diffusa, 156 Minnesota, 151, 153 Mississippi, 140, 149, 169, 172 Missouri, 158, 160, 163

Monilinia fructicola, 159 Montana, 159, 164

Morus rubra: twig blight and canker, 1st rept. on this host (Miss.), 149 Mottled brown streaking, of onion, 150 Mycosphaerella tassiana, 94

--- tulasnei, 94

Myzus persicae, 172

Nabam plus zinc sulfate, 170 Nailhead spot, of tomato, 171 Narcissus sp.: bacterial streak 1st rept. on this host (Wash.), 147 Nebraska, 152, 156 Needle blight, of Pinus strobus, 165 New disease, of strawberry resembling aster yellows virus, 143 New Hampshire, 164, 169, 172, 173 New Jersey, 164 New Mexico, 141, 143, 152, 155, 160, 163, 166, 169, 174 New South Wales, 104 New York, 140, 145, 152, 154, 159, 174

New Zealand, 104

North America, 64

North Carolina, 143, 144, 154, 158, 160, 162, 165, 167, 168, 170, 171

North Dakota, 155 Northern leaf blight, of corn, 154

O-2,4 dichlorophenyl O, 155

O-diethyl phosphorothioate, 155

Oats: blue dwarf and red leaf (virus),
151; crown rust, 151; Helminthosporium, 151, seed treatment, 151,
Septoria avenae, 151; smut, 151;
stem rust, 151

Ohio, 122, 165

Oklahoma, 152, 166

Okra: Verticillium wilt, 174

Onion: mottled brown streaking, Xanthomonas striaformans Thomas & Weinhold (Colo.), 150

Ontario, 167

Oregon, 140, 144, 146, 147, 149, 155, 160, 161, 163, 164

Orobanche ramosa, on tomato, 172 Oxytetracycline, 162

Paeonia officinalis: stem and leaf spot (Gloeosporium sp.), 1st rept. from West Virginia, 142

Panogen, 151

Paratylenchus hamatus, 169

Parsnip: Pythium root rot, 172

Parthenium argentatum: Fusarium solani, 168

Pea: Fusarium root rot, 173

---, Austrian winter: Cercospora lathyrina, 1st rept. from Mississippi, 140

Peach: apple mosaic (virus), 160;
bacterial spot canker, 160; brown
rot, 159; Diplodia natalensis, 1st
rept. from South Carolina, 141;
phony peach (virus), 160; scab, 159;
storage rot, 159; wart (virus), 160;
western X-disease (virus), 160;
X-disease virus, 160

Pear: blossom blast and twig dieback, 160; fire blight, 160

Pecan: bunch disease (virus), 1st rept. from New Mexico, 141; scab, 161

Pectinophora gossypiella, 166

Pelargonium hortorum: bacterial stem and leaf spot, 163

Pellicularia filamentosa, see Corticium solani

--- f. sasakii, 154

--- koleroga, 157

Penicillium clove rot, of garlic, 169

--- digitatum, 157, 169

--- italicum, 157

Pennisetum glaucum: leaf spot, 155; rust, Puccinia penniseti, 1st rept. in U. S. (Ga.), 145

Pennsylvania, 145, 158, 165, 167, 168 Pentachloronitrobenzene, 169, 174 Pentatrichopus fragaefolii, 158 Pentrete, 151

Pepper: bacterial spot, 170, 172; Pythium stem rot and wilt, apparently new, in N. C., 170; red

--- red: curly top (virus), 169 Peronospora parasitica, 169, 174

--- tabacina, 132, 167

Persea americana: Dematophora necatrix, 159; Pratylenchus sp., 159; Radopholus similis, 159

Phalaris arundinacea var. picta: diseases in Alaska, 100

Phleum spp.: diseases in Alaska, 100
--- pratense: Helminthosporium dictyoides
var. phlei, J. H. Graham, in Pennsylvania and other northern States, 145

Phoma sp., on Jasminum spp., 146 ---, on Trifolium pratense, 157

Phygon, 155

Phyllody, of Trifolium repens var. Ladino, 157

Phyllosticta leaf spot, of Acer spp., 164 --- minima, 164

Physalospora tucumanensis, 168

Physiology and basic research, role of, 125 Phytophaga destructor, 152

Phytophthora sp., on Ilex aquifolium, 146

--- capsici, 170

--- cinnamomi, 164; on Chamaecyparis lawsoniana vars. allumi and elwoodi, Taxus baccata, Taxus cuspidata, Erica carnea, Calluna vulgaris vars. alba and aurea, 164

--- cryptogea, 156

--- fragariae, 158

--- infestans, 3, 170, 172, 174

--- parasitica var. nicotianae, 167

--- phaseoli, 173

--- root rot, of alfalfa, 156

Pinus echinata: little leaf, 164

--- ponderosa: western gall rust, 164

--- strobus: needle blight, 165

Piricularia oryzae, 145

Platanus spp.: anthracnose, 165

Pleospora sp., on Ricinus communis, 168

--- herbarum f. lactucum n. f., 171

Poa spp.: diseases in Alaska, 100; rust,

Pod and stem blight, of soybean, 156 Podosphaera leucotricha, 158

Polymyxa graminis, 152

Poncirus trifoliata: Tylenchulus semipenetrans, 159

Poria cocos, isolated from many hosts in important timber areas in U.S., 164

Potato: black leg, 174; Chaetomium spp., 174; "freckles", strains of virus X associated, 175; Heterodera rostochiensis, 174; internal brown spot, 175; late blight, 172, 174; leaf roll (unindentified), 175; scab, 174;

(Potato) yellow spot (virus), 175 Pothos aureus: Rhizoctonia sp., 163 Powdery mildew: of almond, 159; apple, 158; grape, 161; lettuce, 171; Lupinus spp., 156; Rosa spp., 131; Salpiglossis sinuata, 147; strawberry, 158; Tolmiea menziesii, 147; wheat, 152; Zinnia spp., 148 Pratylenchus sp(p.), 159, 161; on alfalfa, 156: blackberry and raspberry, 160 --- penetrans, 157 Prunus spp.: virus diseases, 159 Pseudomonas sp., on blueberry, 160 --- caryophylli, 162 --- marginata, 162 --- phaseolicola, 128, 173 --- tabaci, 168 Pseudoperonospora cubensis, 170 Pseudopityophthorus pruinosus, 165 Puccinellia pumila: diseases in Alaska, 102 Puccinia asparagi, 169 --- conspicua, 163 --- coronata, 155 --- avenae, 151 --- graminis, 156 --- avenae, 151 --- --- tritici, 152 --- penniseti, 145 --- peridermiospora, 164 --- rubigo-vera f. sp. tritici, 104, 152 Purple stain, of soybean, 156 Pyrenophora bromi, 155 Phthium sp(p.), 127, 157; on tomato, 172 --- aphanidermatum, 157 --- arrhenomanes, 152 --- debaryanum, 156, 172 --- root rot, of parsnip, 172 --- rot, of tobacco, 168 --- stem rot and wilt, of pepper, 170

Quercus spp.: oak wilt, 165

Races, of Puccinia rubigo-vera tritici, key for identification of, 106 Radish: downy mildew, 174 Radopholus oryzae, 143 --- similis, 157, 159 Reaction, of varieties of Triticum vulgare to physiologic races of Puccinia rubigo-vera tritici, 112 Red rot, of sugarcane, 168 --- stain, of Acer negundo, 164 --- stele, of strawberry, 158 Rhaphiolepis indica: Entomosporium leaf spot, 1st rept. on this host in this country (Calif.), 148 --- umbellata var. integerrima: Entomosporium leaf spot, 1st rept. on this host (Calif.), 148

163; on Trifolium pratense, 157 --- solani, 152, 166, 173 Rhizopus sp., 166 --- spp., on sweetpotato, 170 Rhode Island, 154, 155 Rice: nematodes, 168; Radopholus oryzae, 1st rept. on this host (Tex., La.), Ricinus communis: charcoal rot, 168; charcoal rot, 1st rept, on this host (Tex., Fla., S. C., Va., Md.), 148 Pleospora sp., 168; Synchytrium stem gall disease, 1st rept. on this host in this country (Tex.), 148 Root rot, of barley, 152; bean, 173; cotton, 166; Trifolium pratense, 156 Rose: black mold, 164; powdery mildew, acti-dione for control of, 131 Rotylenchulus reniformis, 166 Rubus spp.: Pratylenchus spp., 160 --- procerus: mosaic (virus), 160 Ruga verrucosans, 169 Rust, of Allium spp., 169; bean, 173; bluegrass, 156; Fraxinus spp., 164; Helenium hoopesii, 163; Pennisetum glaucum, 145 Rye: Tilletia caries, 1st rept. from Oregon, 140 Salpiglossis sinuata: powdery mildew, 1st rept. on this host (Mich.), 147 Scab, of almond, 159; Gladiolus, 162; peach, 159; pecan, 161; potato, 174 Scaphytopius acutus, 156 Scindapsus aureus: Thielaviopsis root rot, 1st rept. in this country on this host (Md.), 147; Thielaviopsis root rot, 161 Sclerophthora macrospora, 154 Sclerotinia camelliae, 162 --- sclerotiorum, 127, 162 Sclerotium bataticola, 148, 168 --- spp. typica, 168 --- delphinii, 127 --- rolfsii, 142, 163, 172 Secale cereale, Ustilago nuda, 102 Senecio cruentus: chlorosis and dieback, 1st repot. on this host (Md.), 145 Senna, see Cassia tora Septoria avenae, 151 Smut, of oats, 151 Soft rot, of Caladium bicolor, 161; sweetpotato, 170 Some new and important plant disease occurrences and developments in the United States in 1954. Suppl. 235, pp. 135-175

Rhizobium bacteria, 156

--- leguminosarum, 174

Rhizoctonia sp., 127; on Pothos aureus,

Sorghum: covered kernel smut, 152 South America, 47 South Carolina, 141, 148, 159, 160, 166, 167, 168, 169, 170, 171 South Dakota, 174, 175 Southern blight, of tomato, 172; Zinnia elegans, 163 Soybean: Heterodera glycines, 1st rept. on this host in this country (N.C.), 144; pod and stem blight, 156; purple stain, 156 Spergon, 155, 156 Sphaceloma sp., on Ilex cornuta, 146 Sphacelotheca sorghi, 152 Sphaeralcea angustifolia: Verticillium wilt, 1st rept. from New Mexico, 143 Sphaerotheca, 131 --- humuli, 158 --- pannosa, 159 Spain, 104 Spinach: bacterial soft rot, 175 Squash, summer: leaf and stem blight, 170 Stem rust, of oats, 151; wheat, 152 Stemphylium botryosum f. lactucum n. f., 171 --- floridanum, 150 --- solani, 172 Stewart's disease, of corn, 154 Stone fruit viruses: use of antimetabolites for control of, 131 Storage rot, of peach, 159 Strawberry: Gnomonia fructicola, 1st rept. from Maine, 141; new disease (resembling aster yellows virus), 1st rept. in U. S. (Ark.), 143; powdery mildew, 158; red stele, 158; virus diseases, 158; Verticillium, 127 Streptomyces scabies, 174 Streptomycin, 162, 170, 173, 175; role in combating infections of plants, 128 --- nitrate, 158, 168 --- sulfate, 158, 168 Streptomycin-Terramycin mixtures, 160 Stromatinia gladioli, 162 Sugar beet: curly top (virus), 166 Sugarcane: red rot, 168 Sweetclover, see Melilotus Sweetpotato: feathery mottle (virus), 171; internal cork (virus), 171; soft rot, 170 Synchytrium stem gall disease, of Ricinus

communis, 148

Systemics and toxicology, 132

134

Systox, 171

Systemic chemicals. Suppl. 234, pp. 122-

Taxus baccata: Phytophthora root rot, 164 --- cuspidata: Phytophthora root rot, 164 Tennessee, 165, 166, 167, 168 Terramycin, 158, 160 Texas, 143, 146, 148, 150, 153, 154, 157, 162, 166, 167, 168, 170, 171, 172, 174 Thielaviopsis basicola, 141, 145, 146, 147, 150, 161, 166; on Ulmus americana, 148 Thread blight, of Aleurites fordii, 158; Ficus carica, 157 Thuja occidentalis: black mold, 154 --- orientalis: black mold, 164 Tilletia sp., 153 --- brevifaciens, 155 > --- caries, 140, 144, 153 --- cerebrina, on Deschampsia, 155 --- foetida, 153 Tipburn and rib discoloration, of lettuce, 171 Tobacco: black shank, 167; blue mold, 132, 167; Pythium rot, 168; tobacco mosaic virus, 168; wildfire, 168 Tolmiea menziesii, powdery mildew, 1st rept. on this host (Oregon), 147 Tomato: bacterial canker, 171; bacterial spot, 172; blossom-end rot, 172; curly top (virus), 169; damping-off, 172; Fusarium wilt, 171; gray leaf spot. 171, 172; Heterodera marioni, 171; late blight, 172 Tomato late blight: its world distribution and present status. Suppl. 231, pp. 1-91 Tomato: leaf spot, Stemphylium floridanum Hannon & Webber (Fla.), 150; Meloidogyne incognita, 171; nailkead spot, 171; Orobanche ramosa, 172; southern blight, 172; Tylostoma berteroanum (puffball), 1st rept. on this host in this country (Tex.), 150; yellow-net (virus), 172 ---, cherry: late blight, highly resistant to, 172 Tribulus terrestris: Verticillium wilt, 1st rept. from New Mexico, 143 Trifolium hybridum: yellow bean mosaic (inoc. expts. 1st rept. on this host in U. S., Idaho), 144 --- pratense: anthracnose, 156; black patch, 157; Curvularia leaf spot, 1st rept. on this host in U. S., (Md., Fla.), 144; Gliocladium roseum, 157; Phoma, 157; Rhizoctonia, 157; root rot, 156 --- repens: diseases in Alabama, 157 --- var. Ladino: phyllody in Maine,

157

Trisetum spp.: diseases in Alaska, 102 Triticum aestivum: diseases in Alaska, Tuberculina persicina, 163 Tylenchulus semipenetrans, 159 Tylostoma berteroanum, on tomato, 150 Typhula itoana, 155 Ulmus spp.: Dutch elm disease, 166: Thielaviopsis root rot, 161 --- americana: Thielaviopsis root rot, 1st rept. on this host (Md.), 148 Uncinula necator, 161 Uromyces phaseoli, 173 Ustilago avenae, 151 --- kolleri, 151 --- nuda, 152 --- tritici, 153 Valsaria megalospora, on Alnus glutinosa, Verticillium, 127, 143, 167 --- albo-atrum, on eggplant and okra, 174 Vicia villosa: Pratylenchus penetrans, 157; yellow bean mosaic (inoc. expts. 1st rept. on this host in U.S., Idaho), Vigna sinensis: virus diseases, 157 Viola tricolor: aster yellows virus, 1st rept. on this host (Md.), 147 Virginia, 148, 151, 152, 156, 167, 168 Virus diseases, of cucurbits, 170; grape 161; Crotalaria, 157; Gladiolus spp., 163; Prunus spp., 159; strawberry, 158; Vigna sinensis, 157 --- --: aster yellows of Hydrangea macrophylla (Oreg.), 146; Viola tricolor, 147 --- --: big vein of lettuce, 171 --- --: blight injury (tomato aspermy) to chrysanthemum, 162 --- : blue dwarf and red leaf of oats, 151 --- : bunch disease of pecan, 141 --- --: color test for, 169 --- curly top of bean, 169; red pepper, 169; sugar beet, 166; tomato, 169 --- : feathery mottle of sweetpotato, --- ---: "freckles", strains ov virus X associated, 175 --- : internal cork of sweetpotato, 171 --- : leaf crumple of cotton, 167 --- --: (mosaics) alfalfa mosaic of legumes, 155; apple mosaic of peach, 160; Laburnum vein-mosaic of Laburnum alpinum in Md., 149; mosaic of bean. 173; mosaic of Rubus procerus, 160; mosaic of wheat, 153; stripe mosaic of barley, 152; tobacco mosaic of

Digitalis lanata, 166; tobacco mosaic

of tobacco, 168; wheat streak mosaic, 140; yellow bean mosaic (bean virus 2) of bean and sweetclover, 173; yellow bean mosaic (bean virus 2) of Crotalaria spectabilis, Lupinus densiflorus, Medicago lupulina, Trifolium hybridum, Vicia villosa, 144 --- : phony peach of peach, 160 --- : rasp leaf of sweet cherry, 141 --- ring pox of apricot, 159 --- ring spot of chrysanthemum, 145 --- rosette of Lilium longiflorum, 163 ---: spotted wilt of Dahlia sp., 162 --- : stone fruit viruses, use of antimetabolites for control of, 131 --- --: strains of tobacco etch virus on Cassia tora, 155 ---: stunt of corn, 154 --- : tomato ring spot of hydrangea, 163 --- : tristeza virus of Citrus reticulata, 157 --- --: variegation of Camellia spp., 162 --- : western aster yellows of gladiolus, 142 --- : western X-disease of peach, 160 ---: wart of peach, 160 --- : X-disease of peach, 160 --- yellow-net of tomato, 172 --- : yellow spot of potato, 175 Washington, 140, 146, 147, 151, 152, 153, 156, 159, 160, 163, 173 Watermelon: fruit rot, 170; sunburn, 170 Weather of 1954, general 136; destructive storms, 137; drought, 136; maps, 138, 139; precipitation, 136; temperature, 137 Weather injuries: sunburn of watermelon, 170 West Virginia, 140, 141, 142, 154, 161 Western gall rust, of Pinus ponderosa, 164 Wheat: Cerocpsorella foot rot, 152; Cercosporella herpotrichoides, 1st rept. from New York, 140; crown and basal stem rot, 152; dryland root rot, 152; dwarf bunt, 153; leaf rust, 104, 152; loose smut, 153; mosaic viruses, 153; Polymyxa graminis, 152; powdery mildew, 152; seed treatment, 152; stem rust, 152; twist (Dilophospora alopecuri), 1st rept. from Georgia, 140; wheat streak mosaic (virus), 1st rept. from Washington, 140 Wildfire, of tobacco, 168 Wilt, oak, of Quercus spp., 165 Wisconsin, 156, 161, 165, 166, 171

Xanthium commune: Verticillium wilt, 1st rept. from New Mexico, 143

Wrinkled seed coat, of lima bean, 173

Wyoming, 173

Xanthomonas campestris, 169

--- malvacearum, 167

--- pelargonii, 163

--- phaseoli, 128, 173

--- pruni, 160

--- striaformans, 150

--- vesicatoria, 129, 170, 172

Yellows, of cabbage, 169

Zineb, 170, 171
Zineb tobacco dust, 167
Zineb-pyrophyllite dust, 167
Zinnia elegans: southern blight, 163
--- pauciflora and Z. verticillata:
 powdery mildew, 1st rept. on these
 hosts in this country (Mich.), 148

ERRATA

On page 128, next to last paragraph, read (Xanthomonas phaseoli) instead of (Xanthomonas phaesoli).

On page 144, read AGROPYRON CRISTATUM instead of AGROPYTON CRISTATUM

On page 161, next to the last paragraph, read Scindapsus aureus instead of Scindapus aureus. Also read Gerbera jamesonii instead of Gerba jamesonii.

On page 168, read PARTHENIUM ARGENTATUM. GUAYULE: instead of PARTHENIUM ARGENTATUM. GUYULE:

On page 168, under SACCHARUM OFFICINARUM. read Fusarium moniliforme, instead of Fusarium moniliforne.

On page 175, read SPINACIA OLERACEA. SPINACH: instead of SPINACH: OLERACEA. SPINASH:

PLANT DISEASE EPIDEMICS AND IDENTIFICATION SECTION

			·	
		3		
			•	
			•	
				7











